

Room D (Capri), 2F

Chair: Hun-Sik Kang (ETRI)

We3D

July 1 (Wed), 2026

Advanced DSP for Transmission and Sensing

15:00-16:30

We3D-1 Invited 15:00-15:30

Ultrahigh-Capacity Coupled-Core MultiCore Fiber Transmission Systems enabled by Advanced DSPs

Akira Kawai, Kohki Shibahara, Masanori Nakamura, Megumi Hoshi, Takayuki Kobayashi, Yutaka Miyamoto
NTT, inc.

We3D-2 15:30-15:45

Integrated Temperature and Vibration Sensing and Communication based on Weakly Coupled FMFs

Jiarui Zhang^{1,2}, Gang Qiao², Mingqing Zuo², Bowen Lin², Yu Yang², Yiran Wang², Chengbin Long², Siyuan Liu², Yongqi He², Zhangyuan Chen², Juhao Li^{2,3}

¹China Telecom, ²Peking University, ³Peng Cheng Laboratory

We3D-3 15:45-16:00

Shared-Wavelength Integrated Communication and Sensing Scheme over Single-Mode Fiber

Jiajia Shen¹, Suiyao Zhu², Jiajun Ji¹, Tingyu Fu¹, Suhua Wang¹, Fengge Wang³, Mingyi Gao¹

¹Soochow University, ²Harbin Institute of Technology, ³Zhongyuan University of Technology

We3D-4 16:00-16:15

Monitoring of Polarization Fluctuation Speed with Dual-Branch Delay Interferometers

Shiro Ryu¹, Kenya Hitomi², Taku Saito²

¹Meiji University, ²SoftBank Corp

We3D-5 16:15-16:30

Domain Generalization Framework for Robust Linear and Nonlinear SNR Monitoring in Unseen Optical Network Conditions

Qi Hu¹, Hongcheng Wu¹, Haohua Wang¹, Bang Yang², Gai Zhou³, Yanfu Yang², Yang Li⁴, Faisal Nadeem Khan¹

¹Tsinghua University, ²Harbin Institute of Technology, ³Guangdong University of Technology, ⁴Chinese University of Hong Kong